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STARO-UFA REFINERY

1. Staro-Ufa Refinery is located south of the Novo-Ufa and the Chernikovsk Refineries, all of which are in the Chernikovsk sector of the Ufa region. It is situated adjacent to the Belaya River, approximately 6.2 nautical miles NNE of the Ufa Airfield. The approximate geographic coordinates at the center of the Staro-Ufa Refinery are 54 50 30N - 56 05 25E (See Figures 1 and 2).

This refinery is irregular in shape, with maximum dimensions of approximately 6,800 feet by 6,000 feet, and is oriented in a general North-South direction. The total area included within the refinery is approximately 30,000,000 square feet or about 1.1 square miles.

The Staro-Ufa Refinery appears to be basically complete. However, space is available within and adjacent to the plant, especially toward the north and east, for the construction of additional units or associated plants.

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Additions to the standard petroleum refining processes have been minor from [REDACTED] at this installation. However, fairly extensive expansion of possible petrochemical facilities associated with this refinery has occurred. Details concerning these changes are discussed in part b of section 2.

2. Individual sections of the Staro-Ufa Refinery are outlined and annotated on the overlay to Figure 6 of this memorandum.

a. Identification and analysis of these sections is presented under the number corresponding to that on the overlay.

- (1) Tank farm, probable crude and final product storage with possible crude purification units located near the center of this area
- (2) Tank farm, probable intermediate and final product storage
- (3) Cracking units (two)
- (4) Probable gas recovery and fractionation unit
- (5) Probable gas treating units (two)
- (6) Possible gas treating units (two)
- (7) General purpose area with maintenance and shop buildings, intermediate and final product storage, a small unidentified processing unit, and a small park area

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- (8) Water treatment area with settling and spray ponds, probable pumphouses and a few storage tanks
- (9) Possible crude distillation unit
- (10) Probable combination unit
- (11) Administration area
- (12) Area of shop and maintenance buildings
- (13) Thermal power plant and associated facilities
- (14) Large rail served multiple purpose area, including: packaging and shipping area, administration buildings, probable hydrogen gas generation facilities, possible asphaltic concrete production, possible lube oil processing, and additional unidentified processes
- (15) Possible lubricating oil refining area
- (16) Probable units for crude oil distillation and possible cracking and reforming units
- (17) Area of unidentified refining units
- (18) Possible final gasoline treating units
- (19) Rail tank car loading and unloading racks
- (20) Area of small possible petrochemical plants (two), water treatment plant, and a small tank farm
- (21) Flare tower

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b. The sites of significant construction activity from [REDACTED] are annotated with letters on the overlay sheet. A description of these changes, under the letter corresponding to that on the overlay, follows:

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- (a) Additions, including laydown tanks and other equipment were built in this possible treating area between [REDACTED]

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- (b) Construction of approximately seven buildings for unidentified process in this area was in progress in [REDACTED] appears to be complete on coverage

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- (c) Eight buildings, including one with a fairly tall stack have been erected in this area between the Summer of [REDACTED] This area, in which construction appears to be nearing completion on the latest coverage, is probably connected by pipeline to the area of unidentified construction annotated b on the overlay.
- (d) Ground scarring for this possible petrochemical plant was evident in [REDACTED] and construction appears to be complete by the [REDACTED].

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3. Staro-Ufa Refinery is served by a spur from the Trans-Siberian Railway, by road from Ufa, by docking facilities on the nearby Belaya River, and probably by pipeline. A thermal power plant is located directly south of the main refining area, and adequate quantities of water appear to be available from the adjacent river.

4. Staro-Ufa Refinery has been operating throughout the period of time covered by this report, as indicated by fumes and steam visible at the power plant, water treating units, various refining units, and the flare tower.

5. All measurements have been made by the CIA/PID/IB Project Analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

ENCLOSURES

- 2 Annotated Maps
(CIA/PID/IB-P-529/65 and P-530/65)
- 3 Annotated Photos
(CIA/PID/IB-P-531/65 thru P-533/65)
- 1 Annotated Photo w/overlay
(CIA/PID/IB-P-534/65)

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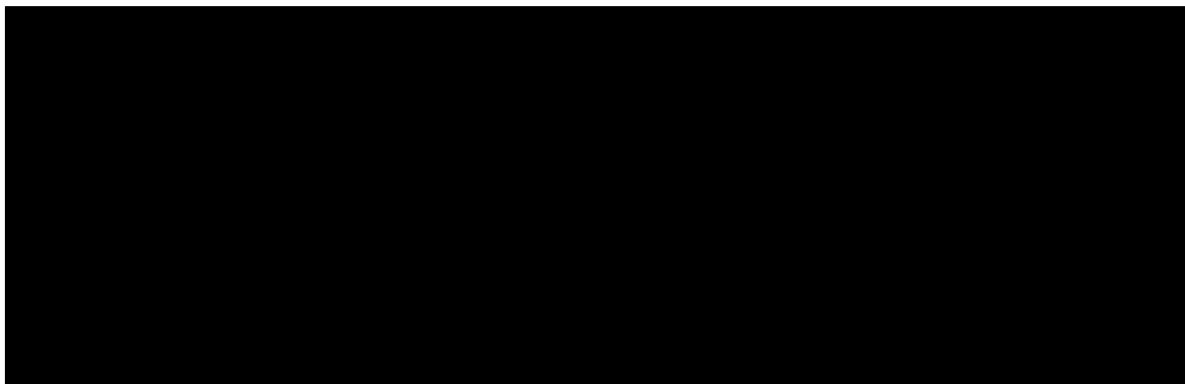
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REFERENCES



MAPS OR CHARTS

General Locator Map, USSR - 29656 1-61 (UNCLASSIFIED)
ACIC. US Air Target Chart, Series 200, Sheet 0165-10A
1st edition, September 58 (CONFIDENTIAL)

REQUIREMENT

CIA. C-RR4-81,226

CIA/PID PROJECT

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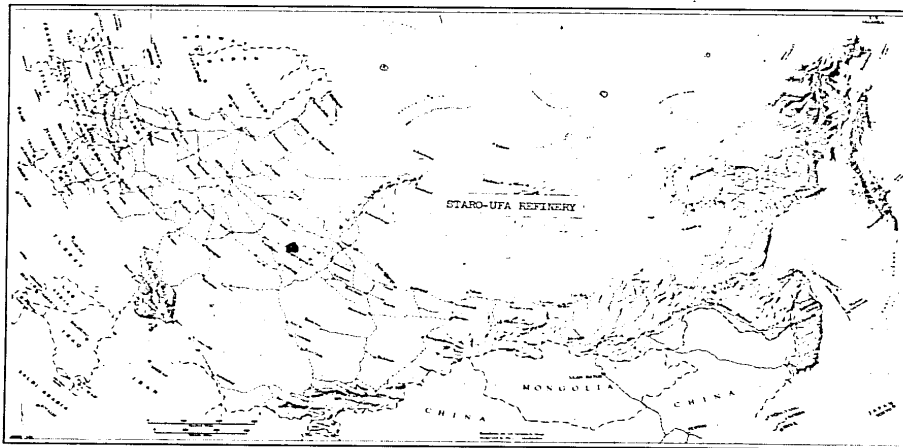
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PREPARED BY - CHEMICAL AND SCIENTIFIC SECTION
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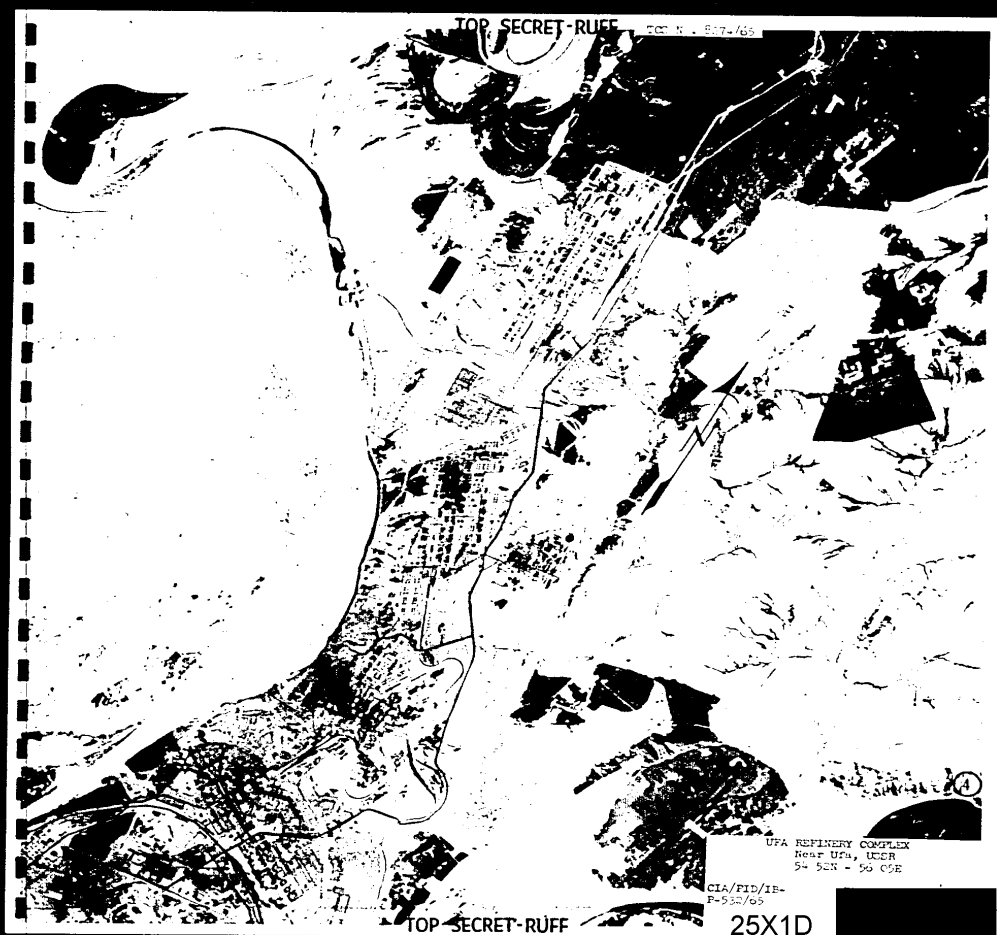
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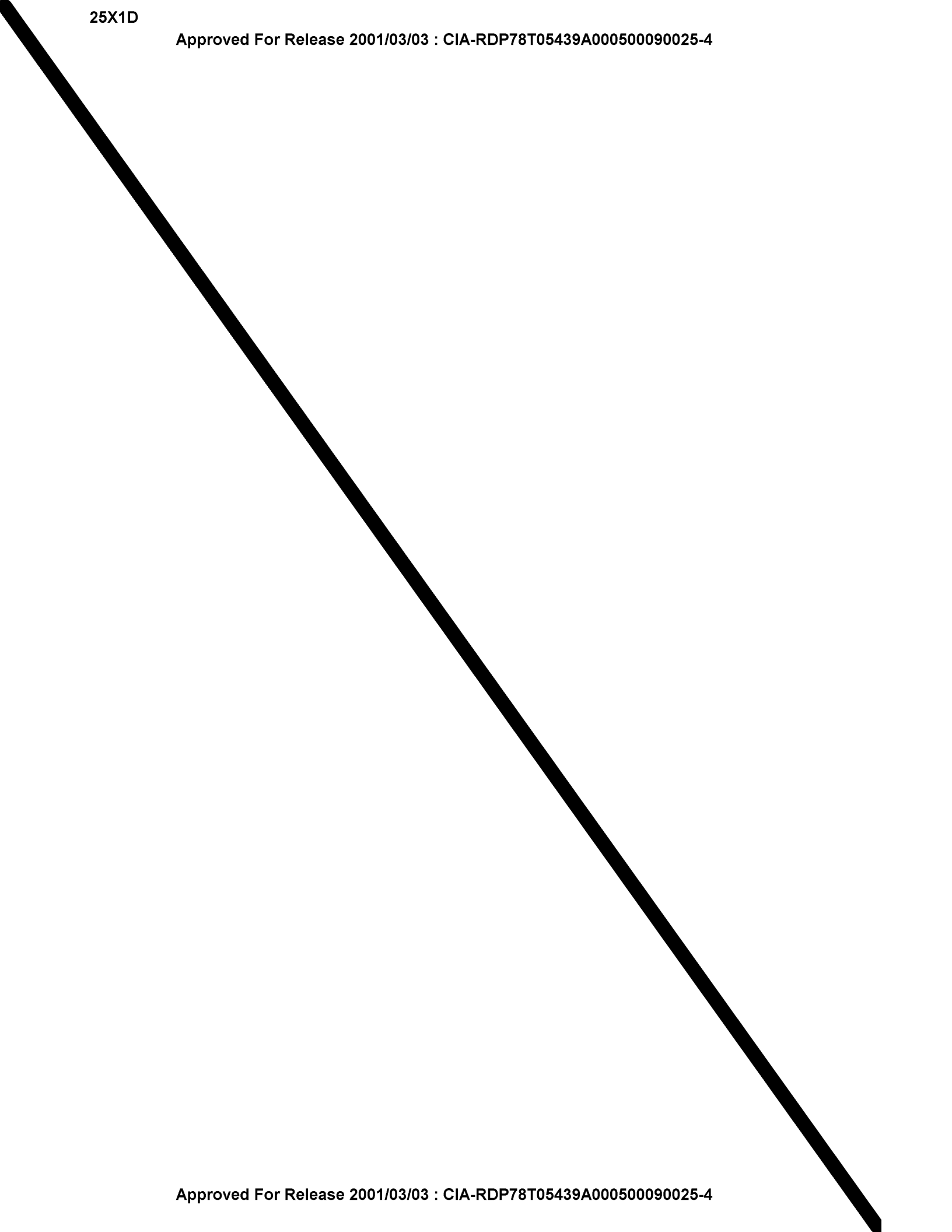
UFA REFINERY COMPLEX
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CENTRAL INTELLIGENCE AGENCY
PHOTOGRAPHIC INTELLIGENCE DIVISION
PHOTOGRAPHIC INTELLIGENCE REPORT

STARO-UFA REFINERY
USSR

CIA/PIR-5001/65



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